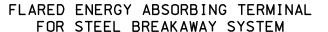
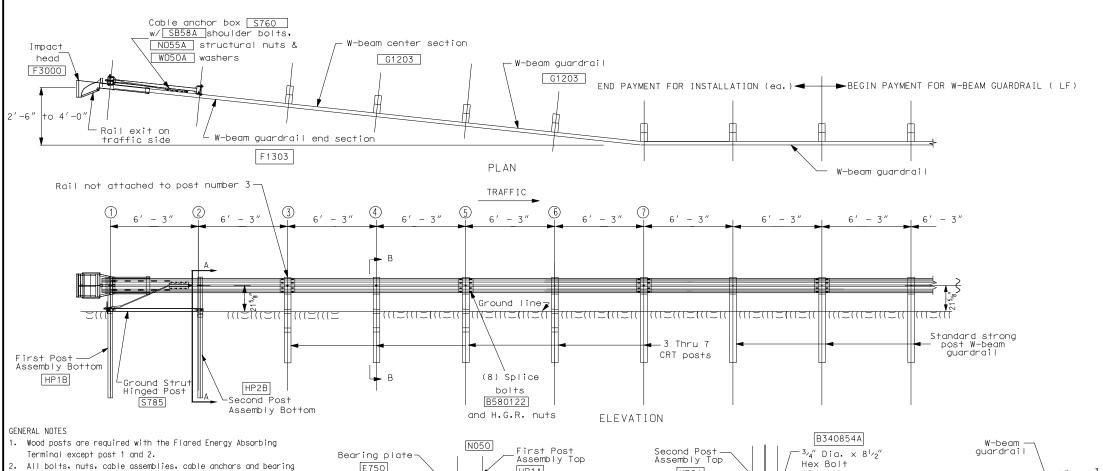
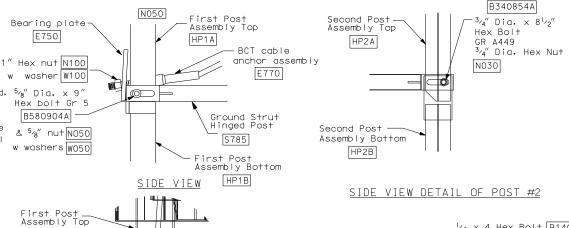
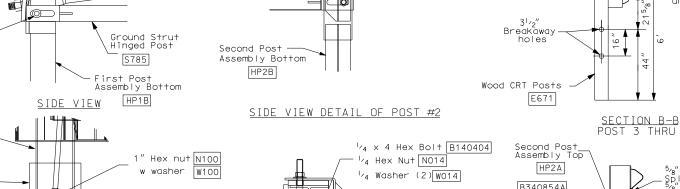
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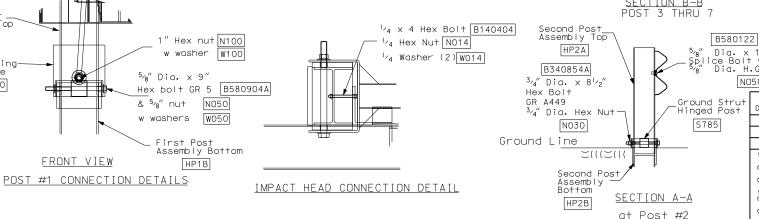




- plates shall be galvanized. 3. The lower sections of the posts shall not protrude more than
- 4 inches above the ground (measured along a 60 inch cord). Site grading may be necessary to meet this requirement.
- 4. Lower post sections shall not be driven with the upper post attached. 5 /8" Dia. \times 9" If the the post is placed in a drilled hole, the backfill material must be satisfactory compacted to prevent settlement.
- When rock is encountered during excavation, a 12" diameter post hole 20" deep may be used if approved by the Engineer. Granular material will be placed in the bottom of the hole approximately 2^{1} / $_{2}$ " deep to provide drainage. The soil tubes shall be field cut to length. placed in the hole and back filled with adequately compacted material excavated from the hole.
- The breakaway cable assembly shall be taut. A locking device (vice grips or channel lock pliers) should be used to prevent cable from twisting when tightening nuts.
- 7. The wood blockouts shall be "toe nailed" to the rectangular wood posts to prevent them from turning when wood shrinks. The nail shall be 20 penny and galvanized.
- 8. The Flared Energy Absorbing Terminal shall be flared only when the approach guardrail is parallel with the roadway. When the approach guardrail is flared at 16:1 to 10:1, the Flared Energy Absorbing Terminal shall have only the flare rate of the guardrail. When the guardrail flare is between 10:1 and 7:1, the Flared Energy Absorbing Terminal shall be turned parallel to the roadway.

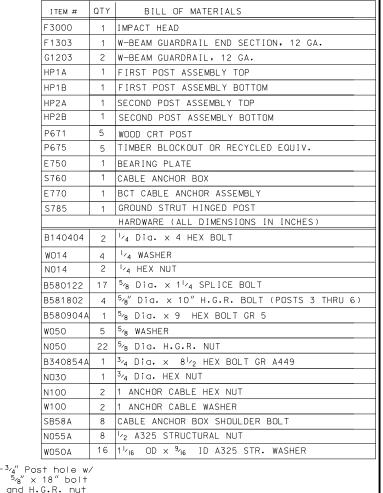


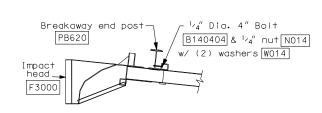




Timber blockout-

E675





IMPACT HEAD CONNECTING DETAIL

⁵/8" Dia. x 1 1/4 Splice Bolt w ⁵/8" Dia. H.G.R. Nut N050 NORTH DAKOTA DEPARTMENT OF TRANSPORTATION This document was 09-01-98 REVISIONS

DATE 12-21-00 Flared energy absorbing terminal note
06-29-01 Added steel breakaway 04-16-02 Adjusted post spacing and eliminated one post PE Stamp added 05-03-05 Revised posts 1 & 2 Revised notes Changed CRT post & blockout 0fty 10 5 and added 7 to section B-B

1⁵/8" 0.D. washer

under nut only

originally issued and sealed by MARK S. GAYDOS, Registration Number PE-4518, on 04/05/06 and the oriainal document is stored at the North

Dakota Department of Transportation

HP1A

Bearina

plate

E750

FRONT VIEW